Genomic RNA from Human Enterovirus 71 (HEV-71), MP4

Catalog No. NR-4961

Product Description:  Genomic RNA was isolated from a preparation of cell lysate and supernatant from African green monkey (Vero) cells\(^1\) infected with HEV-71, MP4.

Lot\(^2\):  58066138  Manufacturing Date:  13MAY2008

<table>
<thead>
<tr>
<th>TEST</th>
<th>SPECIFICATIONS</th>
<th>RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sequencing of HEV-71 Specific Region Polyprotein gene (~ 1140 nucleotides)</td>
<td>Consistent with HEV-71</td>
<td>Consistent with HEV-71</td>
</tr>
<tr>
<td>Functional Activity by RT-PCR Amplification(^3,4)</td>
<td>~ 1200 bp amplicon</td>
<td>~ 1200 bp amplicon (See Figure 1)</td>
</tr>
<tr>
<td>Total RNA Content by RiboGreen(^®) Measurement (Viral, Cellular and Carrier)</td>
<td>Report results</td>
<td>21.9 ng per 100 μL</td>
</tr>
<tr>
<td>Total DNA Content by PicoGreen(^®) Measurement (Viral and Cellular)</td>
<td>Report results</td>
<td>7.7 ng per 100 μL</td>
</tr>
<tr>
<td>Virus Inactivation 10% of total yield inoculated on Vero cells(^1) and evaluated for cytopathic effect(^5)</td>
<td>No virus detected</td>
<td>No virus detected</td>
</tr>
<tr>
<td>Sodium Azide Content</td>
<td>Report results</td>
<td>≤ 0.0004%</td>
</tr>
</tbody>
</table>

\(^1\)Vero cells: ATCC\(^®\) CCL-81™ (Lot 5067004)

\(^2\)Nucleic acid was extracted from a preparation of HEV-71, MP4 (BEI Resources NR-472; Lot 7750290) using a QIAamp\(^®\) Viral RNA Mini kit (Qiagen 52906).

\(^3\)Amplified using 25-fold dilution of NR-4961 and One-Step RT-PCR Kit (Qiagen 210212)


\(^5\)This extraction procedure has been shown to consistently inactivate 100% of enteroviruses using a number of methods designed to detect the virus in cells: 1) cytopathic effect (100% plating and 10% plating) and 2) indirect immunofluorescence of viral antigens.

Date:  02 MAY 2011  
Signature:  [Signature]

Title:  Technical Manager, BEI Authentication or designee

ATCC\(^®\), on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC\(^®\)'s knowledge.

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Figure 1

Lane 1: BioRad EZ Load™ 1 kb Molecular Ruler
Lane 2: 25-fold dilution of NR-4961

Base Pairs

5000

1000

← ~ 1200 bp amplicon

Lane 1: BioRad EZ Load™ 1 kb Molecular Ruler
Lane 2: 25-fold dilution of NR-4961